

ATLAS BIFACIAL 530-550W

M10 / 182 mm Cell - 144 Half-cells



KEY FEATURES



Gallium-doped Technology



Lower LCOE and BOS



Less Hot Spot Shading effects



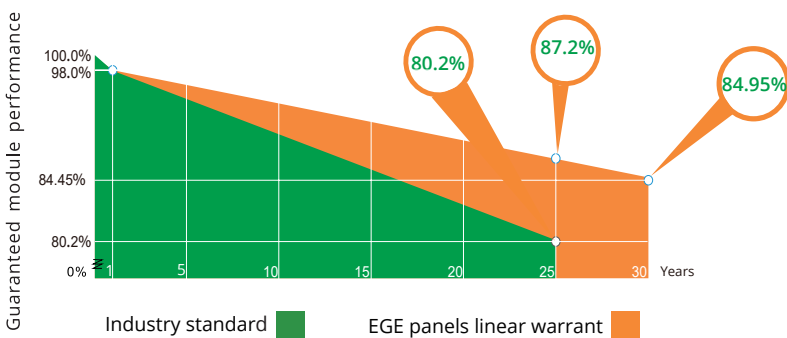
Anti PID/ Low LID protection



Lower temperature coefficient

LINEAR PERFORMANCE WARRANTY

12-Year Product Warranty · 30-Year Linear Power Warranty



144 Half-cells(10BB)

Monocrystalline Module



21.3%

Maximum Efficiency



0~+5W

Positive Power Tolerance



GRADE A

Cells Guaranteed

COMPREHENSIVE CERTIFICATES

IEC 61215/ IEC 61730 / IEC 61701 / IEC 62716

ISO 9001 : Quality Management Systems



ELECTRICAL DATA AT STC*

Power output (Pmax)	530 W	535 W	540 W	545 W	550 W
Power tolerance	0~+5 W	0~+5 W	0~+5 W	0~+5 W	0~+5 W
Module efficiency	20.6 %	20.7 %	20.9 %	21.1 %	21.3 %
Maximum power voltage (Vmp)	41.31 V	41.51 V	41.67 V	41.83 V	41.99 V
Maximum power current (Imp)	12.83 A	12.89 A	12.96 A	13.03 A	13.10 A
Open circuit voltage (Voc)	49.16 V	49.36 V	49.52 V	49.68 V	49.84 V
Short circuit current (Isc)	13.72 A	13.77 A	13.84 A	13.91 A	13.98 A

*Standard Test Conditions (STC) : Irradiance : 1,000 W / m² • Cell temperature : 25°C • AM: 1.5

ELECTRICAL DATA AT NOCT**

Power output (Pmax)	390 W	393 W	397 W	401 W	404 W
Maximum power voltage (Vmp)	38.01 V	38.12 V	38.28 V	38.48 V	38.55 V
Maximum power current (Imp)	10.26 A	10.31 A	10.37 A	10.42 A	10.48 A
Open circuit voltage (Voc)	45.47 V	45.66 V	45.81 V	45.95 V	46.10 V
Short circuit current (Isc)	11.06 A	11.10 A	11.16 A	11.21 A	11.27 A

**Nominal Operating Cell Temperature (NOCT) : Irradiance: 800 W / m² • Environment temperature : 20°C • AM : 1.5 • Wind speed : 1 m/s

ELECTRICAL PARAMETERS(13.5% BIFACIAL POWER OUTPUT)

Output Power	602W	607W	613W	619W	624W
Open Circuit Voltage	49.00V	49.20V	49.40V	49.60V	49.80V
Short Circuit Current	15.58A	15.65A	15.72A	15.79A	15.86A
Maximum Power Voltage	40.80V	41.00V	41.20V	41.40V	41.60V
Maximum Power Current	14.76A	14.82A	14.88A	14.94A	15.00A

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline (182x91 mm)
Number of cells	144
Dimensions	2,274x1,134x35mm (1.5mm Cell Gap)
Weight	32.6 kg
Glass	Tempered glass, High transmission (>94%), Anti-Reflective Coating
Frame	Anodized aluminium alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4.0mm ² ; 300mm(+)/ 400mm(-); Length can be customized
Connector	MC4 or MC4 compatible
Max front load (e.g.: snow)	5,400 Pa
Max back load (e.g.: wind)	2,400 Pa

TEMPERATURE CHARACTERISTICS

NOCT	45°C ±2 °C
Temperature coefficient of Pmax	-0.35%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	+0.048%/°C

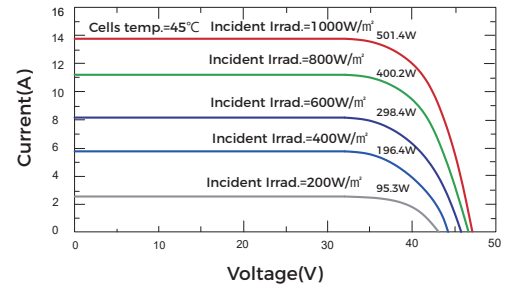
MAXIMUM RATINGS

Operating temperature range	-40 °C ~+85 °C
Maximum system voltage	1,500 DC (IEC) 1,500 DC (UL)
Max series fuse rating	30 A

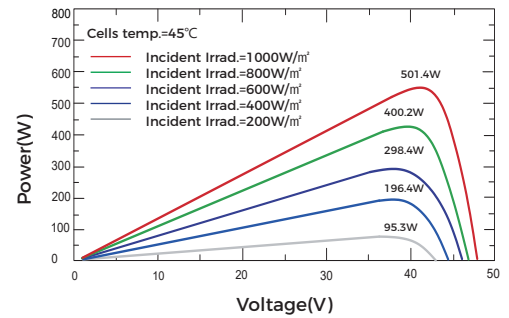
PACKAGING (2,279x1,134x35mm)

Type	Quantity	Weight
Per Pallet	31 pcs	940 kg
40ft HQ Container	620 pcs	18.80 t

PV MODULE : EGE-540W-144M(M10)



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Dimension of PV Module (mm)

